

SEQUENCE LISTING

<110> TYRRELL, JOHN V.
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 BERGQUIST, PETER L.
 SCHOLIN, CHRISTOPHER A.

<120> COMPOSITIONS AND METHODS FOR DETECTING RAPIDOPHYTES

<130> 50681200121

<140> To be assigned
 <141> Herewith

<150> 09/596,136
 60/141,362

<151> 2000-06-16
 1999-06-28

<160> 30

<170> PatentIn Ver. 2.1

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CGACTGAGCA CGCACCTTT

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GTGCTCAGCT ACTCTCCAGG GCTAAGTCTG TTTGTGAAAG ACAGCATCAT GGACGGTGAT 180
AATCCGGTTC TTGCCTTGGA TGTGTAGCG TCTTGAGCCG TCCTCAACGA GTCGAGTTGC 240
TTGGGATTGC AGCTCTAAGC GGGTGGTAAA TTCCATCTAA AGCTAAATAT TGGTGGGAGA 300
CCGATAGCGA ACAAGTACCG TGAGGGAAAAG ATGAAAAGAA CTTTGAAAAG AGAGTTAAAT 360
AGTACCTGAA ACTGCTGAAA GGGAAGCGAA TGAAGTCAGT GTTGCTCTTT GTTCTCTGCA 420
TCCTCCCTGC GGGGATTGTG TATCGAGGAC TTTGAGCTTG TCAGGATGAG TTCTCTGCCG 480
CGGGATATGG TTTGTGAGCT GGATGCTTCT GCTGAACTCA CTCTCTCTGT CGTGGCTTGG 540
ACTGAGGTTT CATCTTGCCG TTGCCTGCTT GTTACTCTCC TGTGCTGTT TCTGTCTTAC 600
TGCTTGCACT GTTCGGTTGC AGTGATTGGA CTGTGCAAGT TATGCATGCA AGGTCAGGAT 660
CCTGACGAAT GGCTTTATTA ACCCGAA 687

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<213> Chattonella subsalsa

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CTACTCTCCA GGGCTAAGTC TGTTCGTGAA AGACAGTGTC ATGGACGGTG ATAACCCGGT 180
TCTTGCCCTTG GATGTTGTAG CGTTTTGAGC CGTCCCTCAAC GAGTCGAGTT GCTTGGGATT 240
GCAGCTCTAA GTGGGTGGTA AATTCCATCT AAAGCTAAAT ATTGGTGGGA GACCGATAGC 300
GAACAAGTAC CGTGAGGGAA AGATGAAAAG AACTTTGAAA AGAGAGTTAA ATAGTACCTG 360
AAACTGCTGA AAGGGAAGCG AATGAAGTCA GTGTTGCTCT TTGTGCTCTG CATCCTCCCT 420
GCGGGGATTG TGTATCGAGG ACTTTGAGCT TGTGAGGATG AGTTCTCTGC CGCGGGATAT 480
GTTTTGTATG CTGGATGCTT TTTGCGGAAC ATACATTCTC TGTCGTGGCT TGGACTGAGG 540
TTCCATCTTG CCGTTGCCGT TGCCTTCCCT TCCCGTTGCT GTCTCTGTTT TACTGCTTGC 600
AGTGCTCAGT TGCAGTAGTT GGACTGTGCG TATTATGCAT GCAAGGTCAG GATCCTGACG 660
AATGGCTTTA TTCACCCGCA A 681

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<213> Fibrocapsa japonica

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GATGTAAATC TGGGTGACGT TTCGTTACCC CGAATTGTAG TCTACAGAAG CGTGTCCAGC 120
CGCGCCCCCT GGCAAAGTCC CCTGGAACGG GGCATCGTGG ACGGTGACAA TCCGGTTTAT 180
GCCTGGGGTG TCGCCTGTGT ACGGGCCGTT TTCAACGAGT CGAGTTGCTT GGGATTGCAG 240
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AAGTACCGTG AGGGAAAGAT GAAAAGAACT TTGGAAAGAG AGTTAAACAG TACCTGAAAT 360
TGCTGAAAGG GAAGCGAAGG AAGTCAGTGT ATGCCGGGGG TCATATTTTCG TGCTGCCTTG 420
AGGGGTAGTG CGCGCTGTGT CCCATGGGCT GGTCAGGATG GGTTCGTTCC GCGGGAGATT 480
CCCAGGGTTG AGGTAGGTCC TTTTGGATTG TCAGCAACCC TGTGGCATGT CGTGGTTCCG 540
ACCGAGGCAT TAGTGACCTT TGGTTTGTAC GGTTCCTATAT GCGTGATCAT GTCTGTGACA 600
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CTGTCAAATG GCTTCTTCC ACCTCTTGAA AGACGGACCA AGG 703

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<212> DNA
<213> Heterosigma akashiwo

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GTAACGGCGA GTGAAGCGGG AAGAGCTCAT GTTGTAATC TCCAGCTTGC TGGCGAATTG 120
TAGTCTAAAG GTGCGTGCTC AGTCGTGGTC CCGGGCTAAG TCTGTTGGAA AACAGCATCA 180
TGGACGGTGA CAATCCGGTT CTTGCCCTGGG GTCCCGCGGC GTACGAGCCG TTTCCGACGA 240
GTCGTGTTGC TTGGGATTGC AGCACTAAGT GGGTGGTAAA TTCCATCTAA AGCTAAATAT 300
TGGTGGGAGA CCGATAGCGA ACAAGTACCG TGAGGGAAAG ATGAAAAGAC TTTTGAAAAG 360
AGAGTAAAT AGTACCTGAA ACTGCTGAAA GGGAAAGCGAT TGAAGTCAGT GTTGCTCCTG 420
GTCTTTTTCG CGTCGCCCCC GTGGGGGTTG CGGCGTGGGG CCTGGAGCGT TTCAACATGC 480
GTTCTGTTCC GCGGGAAATG TTCAGTGTGC TGGAACCTCG GGGAAACGCA CTGTTCTTGT 540
CGTGGTTAGG ACGGAGGACC TTTGCTCCTT TGAAGTGGCG TTCCTCTCTC GGGTATGCTG 600
GTGTCTACTG CTTGCAGTTT TCATTTTCAT GCTTGCGACT GTGCGTGTTA TTCATGAGCG 660
AACATGATGT TGAAGAAATG GCTTTAATTA CCCCCTCTTG AAACACGGAC CAAGG 715

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AGCCGTGCTC CAGGGCTAAG TCTGTTGGAA AACAGCATCA TGGACGGTGA TAATCCGGTT 180
CTTGCCCTGG GTGTTGCGGT GTACGAGCCG TGATCCACGA GTCGAGTTGC TTGGGATTGC 240
AGCTCTAAGC GGGTGGTAAA TTCCATCTAA AGCTAAATAT TGGTGGGAGA CCGATAGCAA 300
ACAAGTACCG TGAGGGAAAG ATGAAAAGAA CTTTGGAAAG AGAGTTAAAA AGTACCTGAA 360
ATTGCTGAAA GGAAGCGAA TGAAGTCAGT GTCTGCTCCT GGTTGTATTT TCGGAGTCCC 420
TGCGGGGATT CCGGCACTGT GGCCTGGAGC ATGTCAGGAT GAGTTCTCTG CCGTGGGATA 480
TGTTTGGTGG GATTGGTACC TTCGGGGAAA CCCGCCACTC TTGTCATGGC TTGGACTGAG 540
GTTCCATCTC GCCGTTTGCC TGCCGTCGC TCTCTGCCGG TTGTTGCTGT CCTACTGCTT 600
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PCR Primer

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PCR Primer

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